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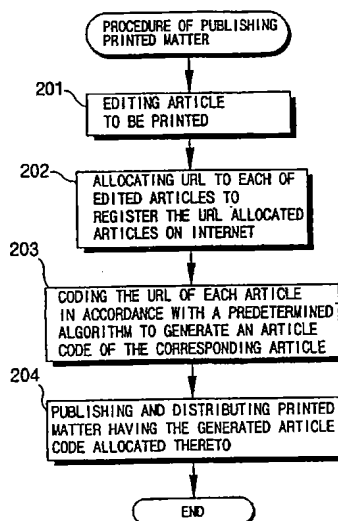
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(54) Title: METHOD OF ALLOCATING ARTICLE CODES AND SEARCHING THE ARTICLE BY THE CODE ON INTERNET



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(57) Abstract: Provided are a method of allocating article codes and a method of searching the article using the article code on the Internet. The article code allocating method includes the steps of editing articles to be printed, allocating a predetermined URL to each of the edited articles to register the URL allocated articles on the Internet, coding the URL of each article in accordance with a predetermined algorithm to generate an article code of the article, and printing the generated article code together with the content of the corresponding article to publish printed matter. The article searching method using the article code includes the steps of reading an article code for searching for a related article from printed matter, accessing a home page of a corresponding site through the Internet, and inputting the article code in accordance with the procedure proposed by the home page and searching for the content of the article corresponding to the article code. Since article codes are allocated according to article contents in printed matter such as newspapers or magazines and then the reader is allowed to search a related article on the Internet using the article code, thereby rapidly searching for a desired article.

## METHOD OF ALLOCATING ARTICLE CODES AND SEARCHING THE ARTICLE BY THE CODE ON INTERNET

### Technical Field

The present invention relates to a method of allocating article codes to allow  
5 general subscribers of newspapers or weekly/monthly magazines published nationwide to  
easily search a related article while reading articles on the Internet, and a method of  
searching the article by the codes on the Internet.

### Background Art

With the progress of an information-oriented society, the Internet is being put into  
10 general use and all kinds of information are supplied over the Internet. Even though a  
vast amount of information is supplied over the Internet, most people still subscribe to  
newspapers or magazines to obtain information.

The information supplied over the Internet, for example, Internet newspapers or  
the like, can be rapidly supplied to Internet viewers and is easily updated. However, once  
15 the contents of the information printed on newspapers or magazines are printed, they are  
unavoidably subject to temporal or spatial restrictions. Thus, it would be quite  
advantageous that information is primarily supplied through printed matter and more  
details or updated contents are then supplied over the Internet.

However, according to the conventional method of searching articles on the  
20 Internet, since key words are used or menu selection based on URL (Uniform Resource  
Locator) is adopted, searching a desired article is time-consuming and complicated.

### Disclosure of the Invention

To solve the above problems, it is an object of the present invention to provide a  
method of allocating an article code, which allows a reader to rapidly search a related  
25 article and its detailed contents using the article code over the Internet, by allocating a  
predetermined article code to a printed article and printing the allocated article code with  
detailed contents, and a method of searching an Internet article using the code.

To accomplish the above object of the present invention, there is provided a  
method of allocating article codes including the steps of editing articles to be printed,

allocating a predetermined URL to each of the edited articles to register the URL allocated articles on the Internet, coding the URL of each article in accordance with a predetermined algorithm to generate an article code of the article, and printing the generated article code together with the content of the corresponding article to publish printed matter.

According to another aspect of the present invention, there is provided a method of searching an article using an article code on the Internet, including the steps of reading an article code for searching for a related article from printed matter, accessing a home page of a corresponding site through the Internet, and inputting the article code in accordance with the procedure proposed by the home page and searching for the content of the article corresponding to the article code.

#### Brief Description of the Drawings

FIG. 1 shows an example of an article code printed in a newspaper article according to the present invention;

FIG. 2 is a flow diagram showing the procedure of allocating article codes to printed matter according to the present invention; and

FIG. 3 is a flow diagram showing the procedure of a printed matter reader searching an article by an article code on Internet according to the present invention.

#### Best mode for carrying out the Invention

Hereinafter, a preferred embodiment of the present invention will be described in detail with reference to the attached drawings.

FIG. 1 shows an example of an article code printed in a newspaper article according to the present invention. Referring to FIG. 1, various articles printed on a newspaper have predetermined article codes 102 and 104 to be discriminated from other articles, printed together at upper or lower portions of the articles. In this embodiment, the article code 102, e.g., A2369472 is allocated to the first article and the article code 104, e.g., B1543278 is allocated to the second article. Such article codes are obtained by coding by a predetermined algorithm a URL number having a related article recorded therewith when the related article is registered on the Internet.

While a reader, who subscribes to a newspaper, reads an article printed on the

newspaper, he/she may want to search more detailed contents or related articles on the Internet. In this case, the reader can quickly search for the related article using the article codes 102 and 104 printed together with the articles. In other words, in order to search for the contents related to the first article, the article code 102 allocated as A2369472 is used. In order to search for the contents related to the second article, the article code 104 allocated as B1543278 is used.

FIG. 2 is a flow diagram showing the procedure of allocating article codes to printed matter according to the present invention. Referring to FIG. 2, an article content to be printed on printed matter is edited and sorted by article (step 201). Then, a URL is allocated according to the edited article content and then the article with the URL is registered on the database of the Internet (step 202). As described above, the URL allocated article content can be directly accessed through the corresponding URL. Since URL is generally complicated, article codes are simply used in the present invention. To this end, in step 203, the URL of each article is converted or coded according to a predetermined algorithm to generate an article code of the corresponding article. Then, in step 204, the printed matter having the generated article code allocated thereto is published and distributed. As described above, in the step of publishing the printed matter, the article contents are edited and then a URL is allocated to each article to then be registered on the Internet. Then, the URLs of the registered articles are converted so as to be easily searched to then generate article codes. The thus-generated article codes are marked at the upper or lower portions of the corresponding articles so that the reader can easily search the corresponding article through the Internet.

FIG. 3 is a flow diagram showing the procedure of a printed matter reader searching an article by an article code on Internet according to the present invention. The printed matter that has been distributed by the procedure shown in FIG. 2 is read by the reader. While reading the printed matter, the reader may intend to see more detailed contents of an article or other articles related thereto. In this case, the reader must find out the article code printed on the printed matter together with the corresponding article, and then access a pertinent site over the Internet, e.g., the home page of a newspaper company (steps 301 and 302). Generally, most companies of publishing printed matters run their own Internet sites having databases accessible by article codes in accordance with the procedure show in FIG. 2.

Then, the Internet is accessed and then the article code is input in accordance with the procedure proposed by the Internet to request retrieval of the corresponding article, and the article content corresponding to the article code is read by a Web server to be transferred to the reader (steps 303 and 304).

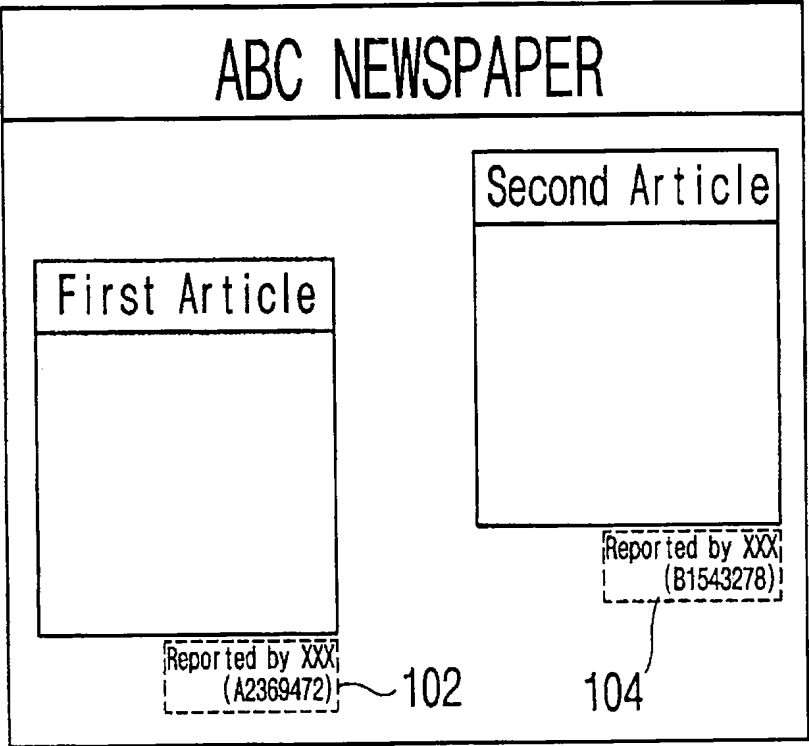
5 Industrial Applicability

As described above, according to the present invention, article codes are allocated to article contents in printed matter such as newspapers or magazines and then the reader is allowed to search a related article on the Internet using the article code, thereby rapidly searching for a desired article.

What is claimed is:

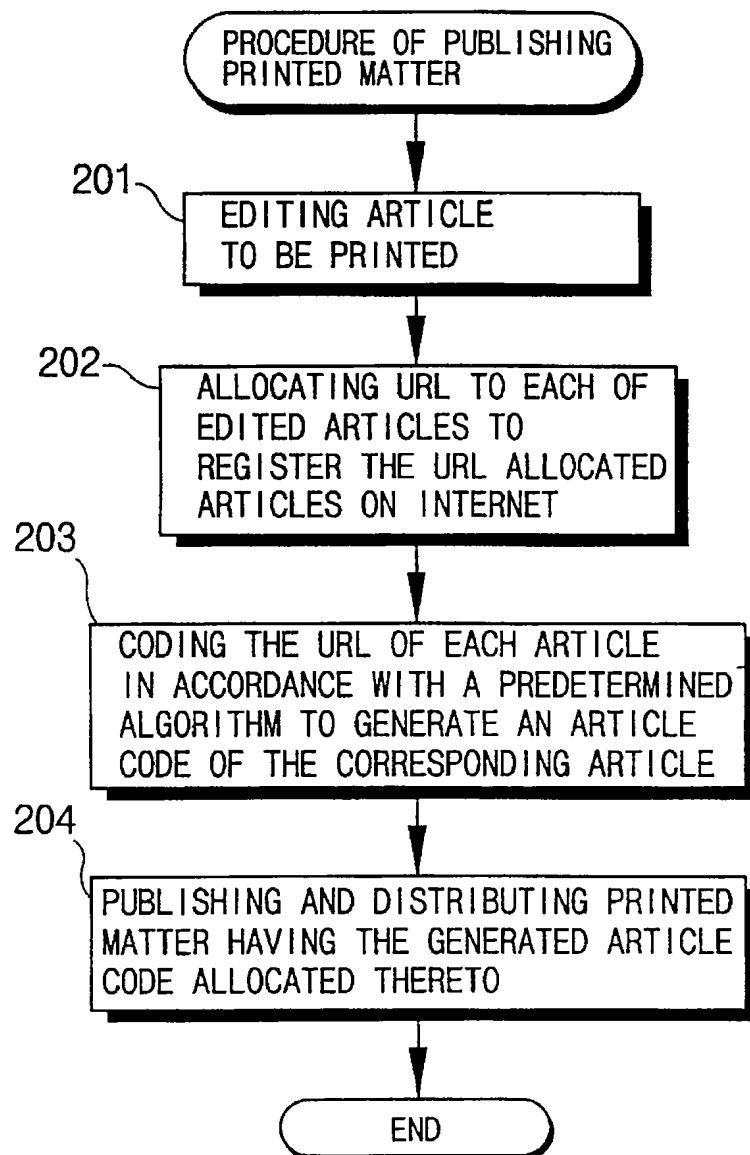
1. A method of allocating article codes comprising the steps of:  
editing articles to be printed;  
allocating a predetermined URL to each of the edited articles to register the URL  
5 allocated articles on the Internet;  
coding the URL of each article in accordance with a predetermined algorithm to  
generate an article code of the article; and  
printing the generated article code together with the content of the corresponding  
article to publish printed matter.
- 10 2. A method of searching an article using an article code on the Internet,  
comprising the steps of:  
reading an article code for searching for a related article from printed matter;  
accessing a home page of a corresponding site through the Internet; and  
inputting the article code in accordance with the procedure proposed by the home  
15 page and searching for the content of the article corresponding to the article code.

1/3  
도 1



2/3

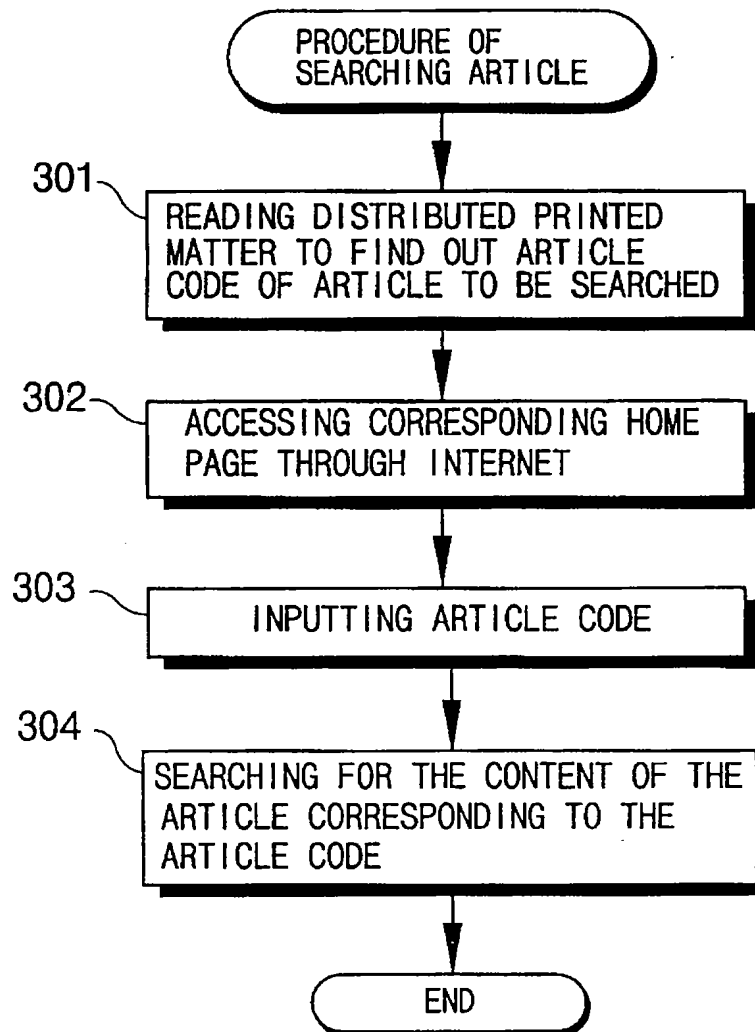
도 2





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도 3



# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR01/00046

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> <b>IPC7 G06F 17/22</b> According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols)				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Y	JP 10-187572 A (TSUKIJI TATSURO) 21 JULY 1998 (Family None) * abstract & claim	1-2		
Y	JP 5-073617 A (NIPPON TELEGR & TELEPH CORP.) 26 MARCH 1993 (Family None) * abstract & claim	1-2		
A	US 4740912 A (WHITAKER RANALD O) 26 APRIL 1988 * whole documents	1-2		
A	JP 7-115474 A (FUJITSU LTD, MATSUSHITA ELECTRIC IND CO LTD, RICOH CO LTD.) 2 MAY 1995 (Family None) * whole documents	1-2		
A	JP 8-272720 A (NIPPON TELEGR & TELEPH CORP.) 18 OCTOBER 1996 (Family None) * whole documents	1-2		
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; border: none;">           * Special categories of cited documents:            "A" document defining the general state of the art which is not considered to be of particular relevance            "E" earlier application or patent but published on or after the international filing date            "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)            "O" document referring to an oral disclosure, use, exhibition or other means            "P" document published prior to the international filing date but later than the priority date claimed         </td> <td style="width: 50%; vertical-align: top; border: none;">           "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention            "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone            "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art            "&amp;" document member of the same patent family         </td> </tr> </table>			* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
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Date of the actual completion of the international search 19 APRIL 2001 (19.04.2001)		Date of mailing of the international search report 20 APRIL 2001 (20.04.2001)		
Name and mailing address of the ISA/KR Korean Intellectual Property Office Government Complex-Taejeon, Dunsan-dong, So-ku, Taejeon Metropolitan City 302-701, Republic of Korea Facsimile No. 82-42-472-7140		Authorized officer KIM, Jae Wook Telephone No. 82-42-481-5962		



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Patent document  
cited in search report

Publication  
date

Patent family  
member(s)

Publication  
date

US 4740912 A

26.04.1988

None